**Chapter 11 – Feeding the World**

**Module 31 – Human Nutritional Needs**

1. What is the main principle of the article “A Farm Where Animals do the Work”?

2. List and describe four human nutritional requirements not always satisfied.

3. Overall, global undernutrition has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

4. Define the following:

Famine –

Anemia –

Overnutrition –

5. Which three grains make up the largest portion of the human diet?

6. What is the second largest component of the human diet?

7. Per capita meat consumption is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in thje United States and

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ globally.

8. List four factors which contribute to malnutrition.

9. Answer the questions on page 362.

**Module 32 – Modern Large-Scale Farming Methods**

1. Define the following:

Industrial agriculture –

Energy subsidy –

2. It takes \_\_\_\_\_\_\_\_\_\_\_\_ of grain to make \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of beef.

3. Most of the energy subsidies in modern agriculture are used for what purposes?

4. Compare the energy subsidy among a typical U.S. diet in 1950 vs. 2010.

5. Do the Math Problem – “Your Turn” on page 365.

6. What is the “Green Revolution”?

7. What is irrigation? Describe two problems associated with irrigation.

8. What are fertilizers? Describe two types.

9. Describe monocropping.

10. What are pesticides? Describe organic and synthetic(inorganic).

11. Describe the following types of pesticides.

Broad-spectrum –

Selective –

Persistent –

Non persistent –

12. What is pesticide resistance and the pesticide treadmill?

13. What is genetic engineering? List five benefits of genetic engineering in agriculture.

14. List three concerns about genetic engineering in agriculture.

15. What are GMO’s? List three plants which come from GMO seeds.

16. Identify two concerns about GMO’s.

17. Differentiate regulation of GMO’s in the U.S. vs. the European Union.

18. What is a CAFO? Identify five animals raised in this operation.

19. Define fishery and bycatch.

20. How much has global fish production increased by 1980?

21. Answer the questions on page 374.